

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

GILL et al.

Examiner:

Unassigned

Serial No.:

10/629,323

Group Art Unit:

2651

Filed:

July 29, 2003

Docket No.:

HSJ920030016US3

(HITG.055PA)

Title:

METHOD AND APPARATUS FOR ENHANCING THERMAL

STABILITY, IMPROVING BIASING AND REDUCING DAMAGE FROM

ELECTROSTATIC DISCHARGE IN SELF-PINNED ABUTTED JUNCTION HEADS HAVING A SECOND HARD BIAS LAYER

DISPOSED AWAY FROM THE FREE LAYER

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence and the papers, as described hereinabove, are being deposited in the United States Postal Service, as first class mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on November 3, 2003.

: Kathlen Mr Devitt Kathleen McDevitt

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (37 C.F.R. §1.97(b))

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner.

This statement should be considered because it is submitted either within three months of the filing date or before the first Office Action of the above-identified application. Accordingly, no fee is due for consideration of the items listed on the enclosed Form 1449.

In accordance with 37 C.F.R. §1.98(a)(2), a copy of each document or other information listed on the enclosed Form 1449 is provided.

Please note that any notations or markings on the attached documents do not reflect particular relevance, or lack thereof, to the present application, nor were they necessarily made by anyone affiliated with the prosecution of the present application.

No representation is made that a reference is "prior art" within the meaning of 35 U.S.C.

§§ 102 and 103 and Applicants reserve the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to

establish that the reference(s) are not "prior art." Moreover, Applicants do not represent that a

reference has been thoroughly reviewed or that any relevance of any portion of a reference is

intended.

Consideration of the items listed is respectfully requested. Pursuant to the provisions of

M.P.E.P. 609, it is requested that the Examiner return a copy of the attached Form 1449, marked

as being considered and initialed by the Examiner, to the undersigned with the next official

communication.

Respectfully submitted,

Crawford Maunu PLLC

1270 Northland Drive

Suite 390

St. Paul, MN 55120

651/686-6633

Date: November 12, 2003

Reg. No. 36,204

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FORM 1449* SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		Docket Number: HSJ920030016US3	Application Number: 10/629,323		
01157	IN AN APPLICATION	Applicant: Gill et al.			
1770B	(Use several sheets if necessary)	Filing Date: 7/29/2003	Group Art Unit: 2651		

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EXAMINER INITIAL	DOCUME	NT NO.	DATE	NAME	CLASS	SUBCLASS	FILING IF APPRO	
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							YES	NO
		отн	ER DOCUMENTS	(Including Author, Title, Dat	e, Pertinent Page	es, Etc.)		
	February 2002	of the Insu Materials,	lator Layer in NiFe Vol. 239, No. 1-3,	RT.; Chen, FR.; Kai, J.J e/CoFe/Al₂O₃/Co Spin-Deper pp 116-119, February 2002.	ndent Tunnel June	ction," <i>Journal of Ma</i> g	netism and M	agnetic
	May 2000	Physics, V	ol. 87, No. 9, pp 6	e Jesus, C.; and Soares, J.C 058-60, May 2000.				
	June 2001	Cardoso, S Mixing Effe 2001.	S.; Freitas, P.P.; Zects on the Tunne	hang, Z.G.; Wei, P.; Barrada I Junction Thermal Stability,"	s, N.; and Soare Journal of Applie	s, J.C., "Electrode Ro ed Physics, Vol. 89, N	oughness and lo. 11, pp 6650	Interfacial 0-6652, Ju

EXAMINER	DATE CONSIDERED						
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.							